

Remark

Applicants respectfully request reconsideration of this application as amended. No Claims have been amended. No claims have been canceled. Therefore, claims 1-23 are now presented for examination.

35 U.S.C. §103 Rejection

Kim in view of Young

The Examiner has rejected claims 1-5, 7-10, 12-15, 17-21 and 23 under 35 U.S.C. §103 (a) as being unpatentable over U.S. Patent No. 6,334,217 to Kim ("Kim") in view of U.S. Publication No. 2003/0194968 to Young ("Young"). The Examiner would appear to be reading the claims onto the translation of instructions from a user infrared remote control to internal system commands to the tuner.

Claim 1 may perhaps be confusing because of amendments, however, a careful reading, starting with the second element reveals that the microcontroller receives commands in a 2nd generalized protocol from the graphics processor. The microcontroller converts the 2nd protocol commands to 1st protocol commands (tuner-specific protocol) and transmits the 1st protocol commands to the tuner. The tuner receives the commands in the 1st protocol from the graphics processor.

Looking at Kim, it would appear that the microprocessor 118 receives commands from the remote control 122. These are then sent to the tuner, but there is no graphics processor. If the remote control uses a different protocol than the tuner, then this is not stated in the reference. The Examiner has assumed this without any evidence.

Looking at Young, Figure 6a, remote control commands 670 are received by an ASIC 620, but there is no tuner. Paragraph 68, cited by the Examiner states that remote

control commands are sent to a server. The server then communicates with a tuner. However, there is no mention of a conversion from one protocol to another by either the ASIC or the server. The only conversion is between different video or audio encoding schemes (MPEG-2, NTSC etc.). These schemes do not involve commands as recited in the claims.

Accordingly, the combination does not show the claimed conversion between protocols. Nor does it show such a conversion by a microcontroller acting in concert with a graphics processor and a tuner. Applicants respectfully submit on these grounds that the rejection is, respectfully, traversed.

35 U.S.C. §103 Rejection

Kim and Young in view of Godwin

The Examiner has rejected claims 6, 11, 16 and 22 under 35 U.S.C. §103 (a) as being unpatentable over Kim and Young in view of U.S. Patent No. 6,772,434 to Godwin ("Godwin").

Conclusion

Applicants respectfully submit that the rejections have been overcome by the amendment and remark, and that the claims as amended are now in condition for allowance. Accordingly, Applicants respectfully request the rejections be withdrawn and the claims as amended be allowed.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Request for an Extension of Time

Applicants respectfully petition for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

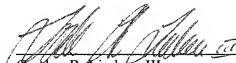
Charge our Deposit Account

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

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Date: 9/15/8


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